IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : D. Amnon Silverstein   Art Unit : 2612
Serial No. : 09/484,667   Examiner : Rosendale, Matthew L.
Filed   : Jan. 18, 2000
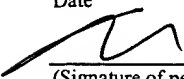Title   : POINTING DEVICE FOR DIGITAL CAMERA DISPLAY

Commissioner for Patents
P.O. Box 1450
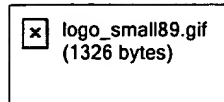Alexandria, VA 22313-1450

EXHIBIT E

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(1326 bytes)

Monthly Reports - March 1999

Department Highlights

**EBCOT-based
algorithm selected
as the VM for
JPEG**

**Development
environment for
CMOS imaging
systems and DSP
programming**

PROJECT:

OBJECTIVE:

MANAGER:

DATES:

STAFF:

DISCUSSION

CAST: The CAST software framework has been updated to allow for: (i) auto-scaling of the GUI display which will allow large scans and pans to be captured in a user friendly manner, (ii) a much wider variety of input cameras and display hardware configurations to be used, (iii) improved camera motion real-time tracking. As a result of the framework upgrade, the software now allows most Windows 98 desktop PC's to connect a USB camera to the system The improved tracking utilizes a predictive tracking scheme to allow faster motions to be effectively tracked. Work is on-going to integrate the tracking failure-detection algorithms that have been developed into the tracking system.

**GOALS FOR
NEXT MONTH**

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DISCUSSION

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Display Image Quality: We met with Stefan Kemper (DPD) to discuss image quality issues related to the most current gamma curve design for Van Gogh. We updated the display simulator to include gamma design, a user interface and documentation. These are now available from

http://hplimg1.hpl.hp.com/~xmei/gammaAnalysis/simulator   We are helping Neela Gaddis (CORL) coordinate another round of human factors experiments at Bristol and UC Berkeley. We hired a contractor to build a display testbed based on flickering diodes to investigate the visibility of field sequential color artifacts. The basic hardware is done and we are now working on the Matlab functions to control the display.

**GOALS FOR
NEXT MONTH**

PROJECT:

OBJECTIVE:

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DISCUSSION

GOALS FOR
NEXT MONTH

PUBLICATIONS & REPORTS:

PATENTS:

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